

CLAIMS

1. Convertible embossing device comprising a structure
(I) with two fixed sides (10) and two mobile sides
(II) with respective external faces (EF, EM) and
5 internal faces (IF, IM) and provided with, in
correspondence of the respective internal faces (IF,
IM), two upper recesses (12, 13) and two lower
recesses (12', 13') with a circle-arc profile intended
to support the end flanges (20, 30) of the two
10 embossing rolls (2, 3) orthogonal to the sides (10,
11) of the same structure (1), wherein the mobile
sides (11) are joined to the fixed sides (10) and
connected to corresponding handling means (5),
characterized in that, in a first operating position,
15 the mobile sides (11) are approached to the fixed
sides (10) and the respective upper and lower recesses
(12, 13, 12', 13') define, by cooperating with one
another, two pairs of circular seats for the flanges
(20, 30) of said rolls (2, 3), and in that, in a
20 second operating position, the mobile sides (11) are
distanced from the fixed sides (10) and the upper
recesses (12, 13) of said sides (10) and (11) define,
each one by cooperating with corresponding semi-
circular closure flanges (15, 16), two pairs of
25 circular seats for the flanges (20, 30) of said rolls
(2, 3).
2. Embossing device according to claim 1 characterized
in that it comprises handling means for the embossing
rolls (2, 3) with three driving shafts (9, 90, 91),
30 two (9, 90) having the respective axes passing through
the center of the recesses (12, 12') in the fixed
sides (10), the third one having the respective axis
at a preset distance from the other two.
3. Embossing device according to claim 1 characterized
35 in that said mobile sides (11) are hinged to said

fixed sides (10) by means of hinges (4) having axis parallel to the axis of the embossing rolls (2, 3).

4. Embossing device according to claims 1 and 3 characterized in that said mobile sides (11) are
5 connected to two actuators (5) which make them rotate in relation to the fixed sides around the axis of said hinges (4).

5. Embossing device according to claim 1 characterized in that it comprises a sizing unit (7) supported by
10 the fixed sides (10) of the structure (1) at the same height as the upper recesses (12) of the same fixed sides (10).

6. Embossing device according to claim 2 characterized in that said driving shafts (9, 90, 91) are
15 connectable to said rolls (3) by means of corresponding laminar joints (T).

7. Embossing device according to claim 2 characterized in that it comprises a selector to arrange only two driving shafts at the time in a position where they
20 engage said rolls (2, 3).